**Name of Work:- Improvements to roads and drains in LNT COMPOUND ROAD to byatarayanapura in ward No.07, Byatarayanapura** **Estimated Cost:- 50.00 Lakhs**

| S.N | DESCRIPTION OF WORK | Unit | N | L | B | D | QTY | RATE | AMOUNT |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1) | | | | | | | | |
| | Basic Rate: | cum | **82.00** | | | | | | |
| | Area Weightage @ 6% | | 4.92 | | | | | | |
| | Total | | **86.92** | | | | | | |
| | Desilting of existing drain at the entrance at the etrance of the road from circle | | 1 | 165.00 | 0.60 | 0.60 | 59.40 | | |
| | Over burden earth near LNT compund | | 1 | 25.00 | 0.75 | 1.00 | 18.75 | | |
| | LNT Compound Road- **BS Slab drain** | | 1 | 245.00 | 0.45 | 0.60 | 66.15 | | |
| | **ASPHALT ROAD** | | | | | | | | |
| | BWSSB- Road cut portion | | 1 | 150.00 | 2.00 | 0.20 | 60.00 | | |
| | Along the side of the LNT compound | | 1 | 150.00 | 1.00 | 0.20 | 30.00 | | |
| | Bad reach | | 1 | 30.00 | 7.00 | 0.30 | 63.00 | | |
| | **GRAMATANA ROAD** | | | | | | | | |
| | RCC DRAIN | | 1 | 195.00 | 0.75 | 0.90 | 131.63 | | |
| | BWSSB- Road cut portion after SWD | | 1 | 75.00 | 2.00 | 0.30 | 45.00 | | |
| | | | | | | | **473.93** | 86.92 | 41193.56 |
| 2 | Providing granite slabs of selected quality roughly dressed and fixed in cementer mortar (1:6) including fixing curing etc., complete. Pg No.25, Item No.5.31.1 (7.5 cms thick) | | | | | | | | |
| | Basic Rate: | Sqm | **628.00** | | | | | | |
| | Area Weightage @ 6% | | 37.68 | | | | | | |
| | Total | | **665.68** | | | | | | |
| | LNT Compound Road- **BS Slab drain** | | 1 | 245.00 | 0.45 | | 110.25 | | |
| | | | 2 | 245.00 | 0.60 | | 294.00 | | |
| | | | | | | | **404.25** | 665.68 | 269101.14 |
| 3 | KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)** | | | | | | | | |
| | Basic Rate: | cum | 4867.00 | | | | | | |
| | Area Weightage @ 6% | | 292.02 | | | | | | |
| | Total | | 5159.02 | | | | | | |
| | Gramatana Road- RCC DRAIN | | 1 | 195.0 | 0.75 | 0.15 | 21.94 | | |
| | | | | | | | **21.94** | 5159.02 | 113176.00 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17) | | | | | | | | |
| | Basic Rate: | Tonne | 56050.00 | | | | | | |
| | Area Weightage @ 6% | | 3363.00 | | | | | | |
| | Total | | 59413.00 | | | | | | |
| | **For RCC Drain Side wall** | | | | | | 45.63 | | |
| | | | At 50Kg % per cum | | | | **22.82** | 59413.00 | 1355507.60 |
| 5 | Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32) | | | | | | | | |
| | Basic Rate: | Sqm | 366.00 | | | | | | |
| | Area Weightage @ 6% | | 21.96 | | | | | | |
| | Total | | 387.96 | | | | | | |
| | **For RCC Drain Side wall** | | 4 | 195.00 | | 0.60 | 468.00 | | |
| | | | | | | | 468.00 | 387.96 | 181565.28 |
| 6 | KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls( anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 ( Page NO. 13, Item NO. 4.11)+ | | | | | | | | |
| | Basic Rate: | cum | 6011.00 | | | | | | |
| | Area Weightage @ 6% | | 360.66 | | | | | | |
| | Total | | 6371.66 | | | | | | |
| | **Gramatana Road- RCC Drain** | | | | | | | | |
| | Rcc Drain-Side wall | | 2.00 | 195.00 | 0.12 | 0.60 | 28.08 | | |
| | Rcc Drain-Bottom | | 1.00 | 195.00 | 0.75 | 0.12 | 17.55 | | |
| | | | | | | | **45.63** | 6371.66 | 290738.85 |
| 7 | KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications.(Item No.4.6, Page No.12) | | | | | | | | |
| | Basic Rate: | cum | 5441.00 | | | | | | |
| | Area Weightage @ 6% | | 326.46 | | | | | | |
| | Total | | 5767.46 | | | | | | |
| | **For coping on existing drain in gramatana road** | | 2 | 180.0 | 0.15 | 0.10 | 5.40 | | |
| | | | | | | | **5.40** | 5767.46 | 31144.28 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8 | Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring cuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications ( Data Rate Approved) | | | | | | | | |
| | **DETA RATE** | **Sqm** | | | | | | | |
| | **Gramatana Road** | | 2 | 260 | | 0.75 | 390.00 | | |
| | **LNT Compund road** | | 1 | 150 | | 0.90 | 135.00 | | |
| | | | | | | | **525.00** | 1836.00 | 963900.00 |
| 9 | Providing and constructing pre cast concrete solid blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quoins, jamb,closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials,labour charges,scaffolding,curing etc., complete as per superstructure(Page No.25,Item No.5.27.1) | | | | | | | | |
| | Basic Rate: | cum | 937.00 | | | | | | |
| | Area Weightage @ 6% | | 56.22 | | | | | | |
| | Total | | 993.22 | | | | | | |
| | **LNT Compund road** | | 2 | 150 | | 0.20 | 60.00 | | |
| | | | | | | | **60.00** | 993.22 | 59593.20 |
| 10 | KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18) | | | | | | | | |
| | Basic Rate: | cum | 1668.00 | | | | | | |
| | Area Weightage @ 8% | | 133.44 | | | | | | |
| | Total | | **1801.44** | | | | | | |
| | LNT Compund road Road cut portion | | 1.00 | 150.00 | 2.00 | 0.20 | 60.00 | | |
| | Along the side of the LNT compound | | 1.00 | 150.00 | 1.00 | 0.15 | 22.50 | | |
| | Bad reach | | 1.00 | 30.00 | 7.00 | 0.20 | 42.00 | | |
| | BWSSB- Road cut portion after SWD | | 1.00 | 75.00 | 2.00 | 0.20 | 30.00 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | **154.50** | 1801.44 | 278322.48 |
| 11 | KSRRB 500-07: Providing and applying primer coat with S.S Bitumen emulsion on prepared surfaces of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.6okg/sqm using mechanical means complete as per specifications.. (Pg No. 161. Item No. 21.6) | | | | | | | | |
| | Basic Rate: | Sqm | 26.00 | | | | | | |
| | Area Weightage @ 8% | | 2.08 | | | | | | |
| | Total | | 28.08 | | | | | | |
| | LNT Compund road Road cut portion | | 1.00 | 150.00 | 2.00 | | 300.00 | | |
| | | | | | | | **300.00** | 28.08 | 8424.00 |
| 12 | KSRRB 500-11: Providing and laying bituminous macadam on prepared surface with crushed aggregates as per design mix formula for base/binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant, rasnsporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level to paver and laying mixed materials with paver finisher to the required level and grade , rolling by power roller to acheive the desired density, but excluding cost of primer/tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications., (using 40/60 TPH capacity H.M.P with mechanical paver Gr-1(80mm to 10mm) with 3.3% VG-30 bitumen.(Page No.162, Item No.21.11.5) | | | | | | | | |
| | Basic Rate: | cum | 4837.00 | | | | | | |
| | Area Weightage @ 8% | | 386.96 | | | | | | |
| | Total | | 5223.96 | | | | | | |
| | LNT Compund road Road cut portion | | 1.00 | 150.00 | 2.00 | 0.05 | 15.00 | | |
| | | | | | | | **15.00** | 5223.96 | 78359.40 |
| 13 | KSRRB-500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materails, labour, HOM Machineries complete as per specifications.(Page No.161, Item No.21.2) | | | | | | | | |
| | Basic Rate: | Sqm | 3.00 | | | | | | |
| | Area Weightage @ 6% | | 0.18 | | | | | | |
| | Total | | 3.18 | | | | | | |
| | LNT Compound Road- | | 1.00 | 422.00 | 4.00 | | 1688.00 | | |
| | | | | | | | **1688.00** | 3.18 | 5367.84 |
| 14 | KSRRB 500-07: Providing and applying tack coat with80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials , labour HOM Machineries complete as per specifications.. (Pg No. 160. Item No. 21.7) | | | | | | | | |
| | Basic Rate: | Sqm | 11.00 | | | | | | |
| | Area Weightage @ 6% | | 0.66 | | | | | | |
| | Total | | 11.66 | | | | | | |
| | LNT Compound Road- | | 1.00 | 422.00 | 6.00 | | 2532.00 | | |
| | | | | | | | **2532.00** | 11.66 | 29523.12 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 15 | Providing and laying bituminous concrete40MM thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filleeer, ransporting of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required gradde, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to acheive the desired compaction as per MORTH specifications clause No.509 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical paver Gr-11(30mm to 45mm) with 5.4% of modified binder consisting of 4.97% VG-10 bitumen (80/100) grade and 0.43% of plastomeric thermoplastics(Waste plastic)(Page No.172, It No.21.78.6) | | | | | | | | |
| | Basic Rate: | Sqm | **6889.00** | | | | | | |
| | Area Weightage @ 6% | | 413.34 | | | | | | |
| | Total | | **7302.34** | | | | | | |
| | LNT Compound Road- | | 1.00 | 422.00 | 6.00 | 0.04 | 101.28 | | |
| | BWSSB- Road cut portion after SWD | | 1.00 | 75.00 | 2.00 | 0.04 | 6.00 | | |
| | | | | | | | **107.28** | 7302.34 | 783395.04 |
| 16 | KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1) | | | | | | | | |
| | Basic Rate | cum | **68.00** | | | | 465.00 | 106.00 | 49290.00 |
| | Rs. 2.50 Tonne Km. | | | | | | | | |
| | Average Weight of earth 1.28 Tonne/Km. | | | | | | | | |
| | For 10 Km | | | | | | | | |
| | Rs.2.50X1.28TonneX10Km | | **32.00** | | | | | | |
| | Total | | **100.00** | | | | | | |
| | Add Area Weightage6% | | **6.00** | | | | | | |
| | | | **106.00** | | | | | | |
| 17 | | | | | | **Sub Total** | | | 4538601.78 |
| 18 | | | | | | **KRIDL Charges 8%** | | | 363088.14 |
| 19 | | | | | | **Total** | | | **4901689.92** |
| | | | | **Add 1% labour cess charges** | | | | | 49016.90 |
| 20 | | | | **Add 1% Third party inspection charges** | | | | | 49016.90 |
| 21 | | | | **Miscelleneous charges** | | | | | 276.28 |
| | | | | | | **Total** | | | 5000000.00 |

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees fifty lakhs only
Ref to enclosed memo No. ( ) dated 19-4-2017 Rs. 50.00 lakhs
Joint Commissioner (Yelahanka Zone) BBMP Bengaluru-92

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2016-17year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

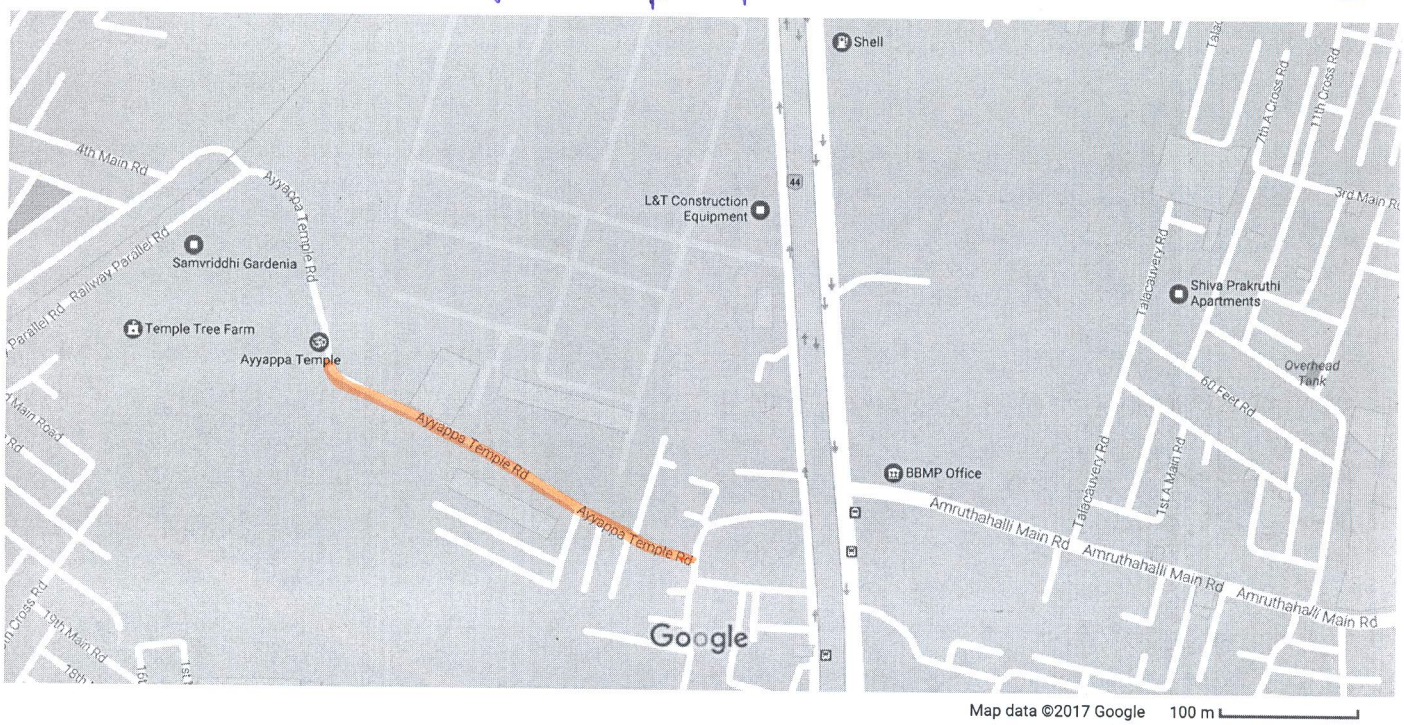
Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

Technical Sanction
Accorded For 50.00 lakhs
Head of A/C P-3111
CER NO : 29 Dt: 19/04/17

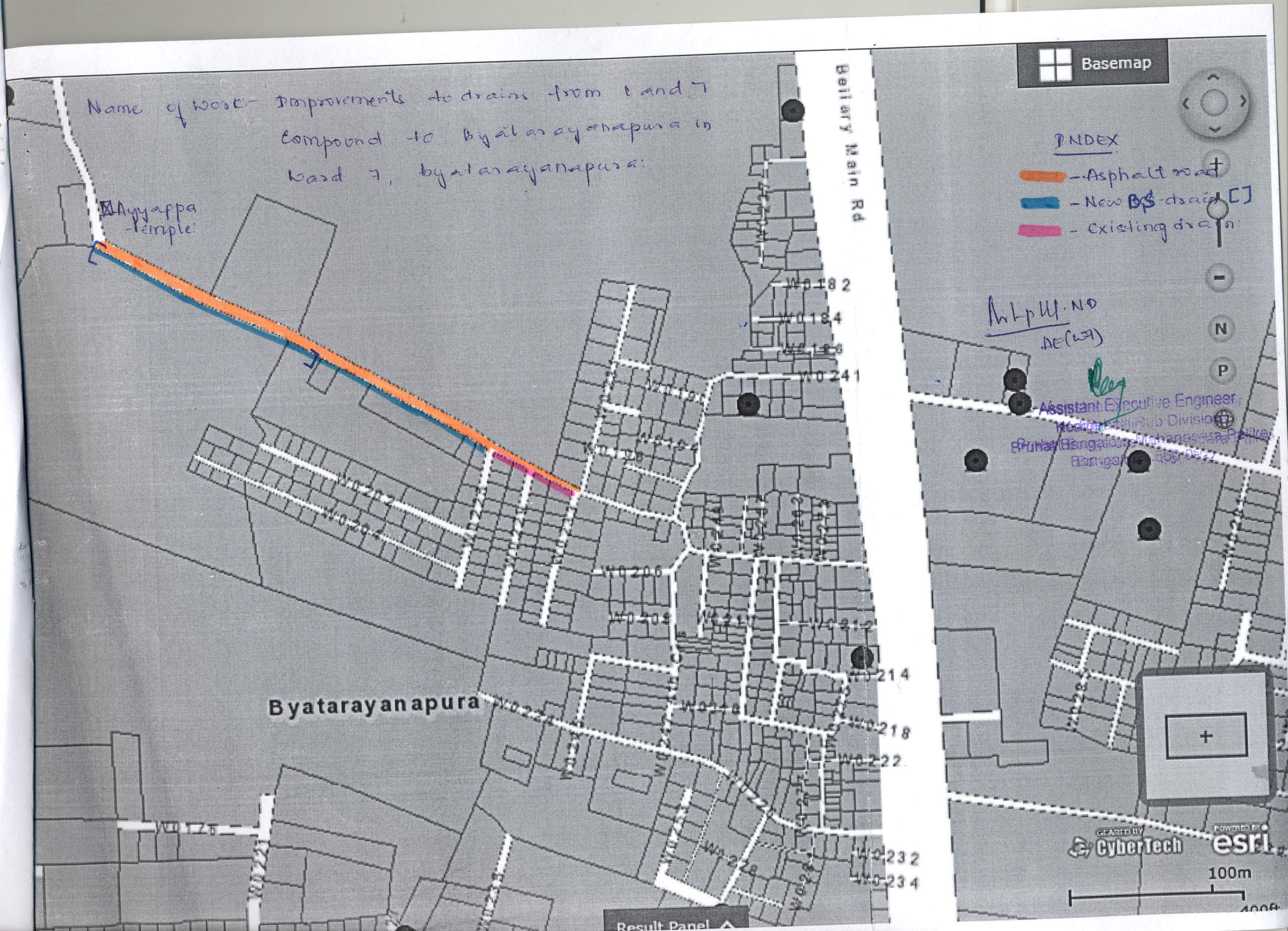
TA CE (YNK)

Name of Work:- Improvements to roads and drains in Land 7 Compound road to byatarayanapura in Ward 7 byatarayanapura in ward 4 6




M Lally N D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092


Name of work:- Improvements to drains from Land 7 Compound to Byatarayanapura in ward 7, byatarayanapura.
Ayyappa Temple
Bellary Main Rd
Byatarayanapura
INDEX
- Asphalt road
- New BS drain
- Existing drain
Basemap
Assistant Executive Engineer
CyberTech
esri
100m